



Department of Commerce

Safety & Buildings Division

201 West Washington Avenue

P.O. Box 2658

Madison, WI 53701-2658

Evaluation #

200108-I (Replaces 950015-I)

Wisconsin Building Products Evaluation

Material

Perform Protect EPS Roof Insulation

Manufacturer

AFM Corporation
24000 W. Hwy 7, Suite 201
Excelsior, MN 55331

Locations: Heartland EPS, Inc.
90 Trowbridge Dr.
P.O. Box 669
Fond du Lac, WI 54936-0669

Heartland EPS, Inc.
809 E. 15th Street
Washington, IA 52353

Heartland EPS, Inc.
3751 Sunset Avenue
Waukegan, IL 60087

SCOPE OF EVALUATION

AFM Perform Protect EPS roof insulation was evaluated for use as a foam plastic insulation. The EPS insulation when applied directly to metal roof deck is part of a listed roof system without the use of an interior thermal barrier in accordance with **s. Comm 51.06 (4)(e) 3** of the Wisconsin Building And Heating, Ventilating And Air Conditioning Code.

***Thermal Performance:** AFM Perform Protect EPS roof insulation panel has been evaluated for thermal performance requirements of **s. Comm 63.17** of the current Wisconsin Administrative Building And Heating, Ventilating And Air Conditioning Code.

DESCRIPTION AND USE

Perform Protect is an expanded polystyrene insulation board with a fire-resistant penetrating coating applied to the surface. The fire-resistant penetrating coating, applied by AFM Partner factories is applied directly to steel roof decks that meet the minimum requirements for listing (see Number 2 in the following system diagrams), without the need of a thermal barrier between the foam plastic insulation and the building interior.

TESTS AND RESULTS

AFM Perform Protect was tested in accordance with UL 1256. Its satisfactory performance resulted in the listing of UL Construction Numbers 411 and 412.

***The EPS core material, identified as AFM certified "Perform Guard" EPS, has a minimum density of 0.95 pcf.**

Notes:

1. *In accordance with the thermal performance requirements of **s. Comm 63.17**: "ASHRAE Fundamentals": EPS (molded beads) with a density of 1.00 pound per cubic , has an R = 3.85/inch thickness.
2. The total thickness and density of AFM Perform Protect Panels in items 3 and 3A (in UL Details No. 411 and 412), shall not exceed an equivalent of 8-inches in thickness, at 1 pound per cubic foot density.

LIMITATIONS OF APPROVAL

AFM Perform Protect Panel, for use without the thermal barrier normally required under **s. Comm 51.06 (3)**, installation and construction shall be in accordance with UL Construction Numbers 411 or 412, and shall not exceed an equivalent of 8-inches in thickness, at 1 pound per cubic foot density.

A complete set of plans, structural calculations and specifications shall be provided for each building constructed with AFM Perform Protect Panels.

This evaluation number (200108-I) must be provided when building plans showing the use of this product are submitted for review.

AFM Perform Protect Panels shall be fabricated and installed in accordance with the manufacturer's recommendations and with the limitations of this evaluation.

This approval will be valid through December 31, 2006, unless manufacturing modifications are made to the product or a re-examination is deemed necessary by the department. The Wisconsin Building Product Evaluation number must be provided when plans that include this product are submitted for review.

DISCLAIMER

The department is in no way endorsing or advertising this product. This approval addresses only the specified applications for the product and does not waive any code requirement not specified in this document.

Reviewed by: _____

Revision Date:

Approval Date: April 10, 2001

By: _____

Lee E. Finley, Jr.
Product & Material Review
Integrated Services Bureau